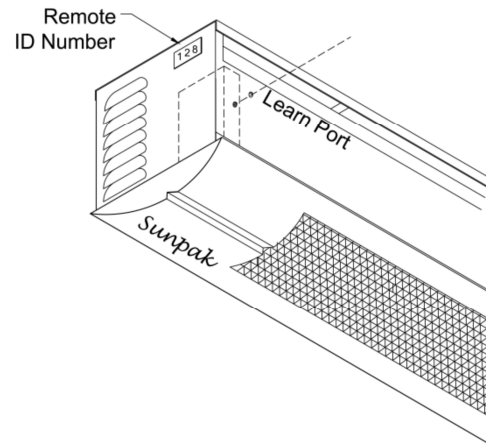
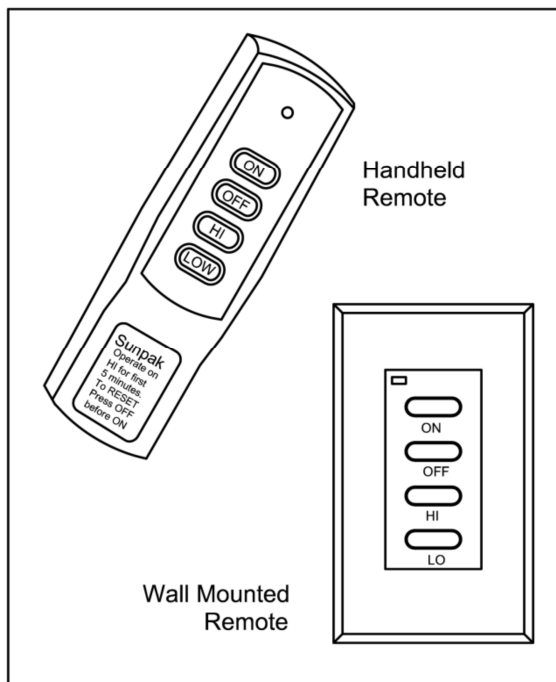


## Basic Heater Operation

Sunpak S34 TSR is an outdoor gas-fired infrared heater which is operated with a wireless remote control. The heater can be operated at a High setting with an input of 34,000 BTU/Hr or at a LOW setting of 25,000 BTU/Hr. Each heater comes with wireless operating remote controls that are pre-programmed for that heater. The number located on the louvered end of the heater corresponds to the number on the remote control. Should the original remote control become lost, additional remote controls can be purchased. However, the heater will need to be re-programmed for the new remote control.



**The Sunpak S34-TSR should always be started up and operated on the HIGH mode for the first 5 minutes to allow the heater to warm up. Starting up the heater on the LOW mode before the heater is warmed up may cause the heater to shut down prematurely. To correct this situation press the OFF button followed by the ON button and the HI button. Always PRESS the button for at least 1 second to allow proper transmission of the remote signal.**



Sunpak heaters have a spark ignition and electronic flame safety control. The pilot is only ON while the heater is operating. If the flame safety sensor fails to sense flame at the pilot, the heater will shut down and lockout. This may happen due to low gas pressure or a gusty wind. Should the heater lockout you may be able to hear a faint beeping from the heater control. To restart the heater, first press the OFF button before restarting the heater.

Although these heaters are designed for outdoor installation and use, it is important that the wireless remote control(s) be protected from the weather. Should the remote control become wet, it may be necessary to replace the control. Keep controls out of reach of children.

Each control has four buttons (ON OFF HI LOW). The remote controls are powered by batteries. The remote control has an approximate 25 foot line of sight range. Weak batteries can limit the effective range of operation.

Device	Battery
Wall Remote	2032 Button Type
Handheld	21/23 – 12V

# Trouble Shooting Remote Controls

Error Code:	Reason	Solution
Module has four “beeps” every one second	Warns user that the pilot flame sensor detects a pilot flame already present when ignition sequence is initiated. This fault will also occur if pilot flame sensor on main control module is shorted to ground	Adjust the sensor electrode to 3/16” for the pilot hood and 3/8” from the spark electrode. Make sure the electrode is within the flame zone.
Four beeps every two seconds	Warns users the module’s internal temperature has exceeded 170° F. (77° C.)	Correct Mounting Angle – Page 4 Provide Proper Ventilation – Page 9 Allow heater to cool down before pressing <Off> then <ON>
One beep every four seconds	Flame Safety Circuit has locked out	Press OFF button to reset then ON to restart heater

Each Sunpak TSR comes with wireless controls pre-programmed for individual heaters. If you have a problem with the remotes, please review the following:

1. Make sure there is power to the unit through the 7.5 VDC plug-in power adapter.
2. Make sure you have the correct control for the heater. Each control is marked with a number corresponding to the label located on the louver end of the heater.
3. Make sure you gently press the <ON> button for 1 full second to allow the control to respond.
4. Make sure the red indicator lights up while pressing the <ON> button. Replace batteries if necessary.
5. Each heater comes with two wireless control devices. Try the other control device.
6. Press <OFF> to RESET system and then press <ON>. After a few seconds you should hear an audible click from the control inside the heater and see a spark at the pilot behind the face grille.

If the above procedure fails to get results it may be necessary to re-program the heater control. The diagram on page 3 of these instructions shows the location of the programming button inside the heater. This button may be accessed through the port on the front panel of the heater. A small rod such as a bent heavy duty paper clip or 1/8 inch pin will be necessary to reach the button.

The heater control communicates using a series of beeps. In a noisy environment these beeps may be hard to hear. Though these beeps are helpful they are not necessary for programming the heater.

## Programming Remote Control Devices

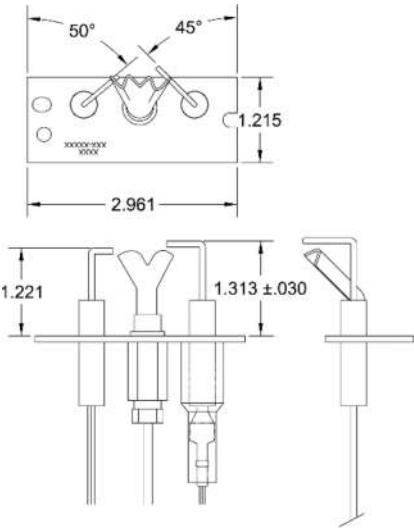
1. Select the wireless device you want the use with the heater.
2. Locate the learn button of the heater control as shown in the diagram on page 3. With the bent paper clip, press and hold the learn button for 6 seconds before releasing.

## SUNPAK® S34-TSR INFRARED HEATERS

3. Press and release the learn button on the heater control. Press the <ON> button on the wireless device within 10 seconds. Make sure the remote's red indicator light went on while pressing the remote.
4. The heater should now recognize the wireless device.
  - a. Press the <OFF> button on the wireless device
  - b. Press the <ON> button
  - c. Press the <HI> button
  - d. Leave heater on HI for first 5 minutes

If the heater does not light, repeat procedure 4. It is likely that there is still air in the gas line. If the heater fails to light or fails to stay lit after several tries, it may be necessary to purge the air from the gas line using safe practices.

NOTE: Only 3 remote controls can be programmed into the heater at one time. It may necessary to clear the memory if a new device does not program properly. To clear the memory, hold the learn button in for over 10 seconds. A series of beeps will indicate memory is cleared.

	<h3>Sunpak Pilot</h3> <p>The two electrodes near the pilot provide for flame ignition and sensing. It is important that these electrodes be positioned properly.</p> <ul style="list-style-type: none"><li>• Electrodes should be located 3/16" from the pilot hood and within the flame zone.</li><li>• Make sure that dirt, cobweb, or other debris does not accumulate around pilot burner.</li></ul>
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